

C BERBERINE

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*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Adonis vernalis	Plant	--	--	--	
Andira inermis	Bark	--	--	--	
Argemone mexicana	Plant	410	410	--	
Berberis vulgaris	Plant	--	--		Jim Duke's personal files.
Berberis vulgaris	Root	4000	64800	1.0732112991587024	--
Berberis vulgaris	Bark	45000	45000	1	Jim Duke's personal files.
Berberis vulgaris	Root Bark	25000	80000	--	
Berberis vulgaris	Stem Bark	20000	25000	1	Jim Duke's personal files.
Berberis vulgaris	Flower	6600	6600		Jim Duke's personal files.
Berberis vulgaris	Stem	1600	28900		Jim Duke's personal files.
Berberis vulgaris	Leaf	3000	3000	1	Jim Duke's personal files.
Caulophyllum thalictroides	Plant	--	--		Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Chelidonium majus</i>	Plant	--	--	--	
<i>Coptis chinensis</i>	Rhizome	40000	90000	0.9045340337332908	--
<i>Coptis japonica</i>	Rhizome	40000	70000	-0.3015113445777636	--
<i>Coptis spp</i>	Rhizome	40000	90000	0.9045340337332908	--
<i>Corydalis spp</i>	Plant	--	--	--	
<i>Eschscholzia californica</i>	Shoot	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Hydrastis canadensis</i>	Root	1385	60000	0.90147316172384	--
<i>Hydrastis canadensis</i>	Plant	--	--	--	
<i>Hydrastis canadensis</i>	Rhizome	--	50000	-1.507556722888818	--
<i>Hydrastis canadensis</i>	Shoot	--	--	--	
<i>Macleaya cordata</i>	Plant	--	--	--	
<i>Mahonia aquifolium</i>	Root	--	--	--	
<i>Mahonia aquifolium</i>	Plant	--	--	--	
<i>Mahonia aquifolium</i>	Bark	--	--	--	
<i>Mahonia aquifolium</i>	Shoot	--	--	--	
<i>Mahonia aquifolium</i>	Root Bark	--	--		Kukic, P., Nikolic, R., Gorunovic, M. 1972. Comparative Pharmacognostic Study of Berberis (Barberry) vulgaris and Berberis aquifolium. Acta Pharm Jugosl, 22: 19-24.
<i>Mahonia aquifolium</i>	Leaf	--	13	-1	Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Mahonia aquifolium</i>	Wood	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
<i>Mahonia fargesii</i>	Root	--	--		Liu, M. I., Feng, H. L. 1991. The Alkaloids Content of the Different Parts in Dayecihuangbai (<i>Mahonia fargesii</i>) by HPLC. Chung Ts'ao Yao, 22(7): 308-309.
<i>Mahonia fargesii</i>	Stem	--	--		Liu, M. I., Feng, H. L. 1991. The Alkaloids Content of the Different Parts in Dayecihuangbai (<i>Mahonia fargesii</i>) by HPLC. Chung Ts'ao Yao, 22(7): 308-309.
<i>Mahonia fargesii</i>	Bark	--	--		Liu, M. I., Feng, H. L. 1991. The Alkaloids Content of the Different Parts in Dayecihuangbai (<i>Mahonia fargesii</i>) by HPLC. Chung Ts'ao Yao, 22(7): 308-309.
<i>Mahonia fortunei</i>	Leaf	--	--		Willaman, J. J., Li, H. L. 1970. Alkaloid-Bearing Plants and their Contained Alkaloids, 1957-1968. Lloydia, 33: 1-286.
<i>Mahonia gracilipes</i>	Root	--	--		Lu, G. H., Chen, J. M., Wang, L. W., Xiao, P. G. 1995. Chemical Constituents of <i>Mahonia gracilipes</i> (Oliv.) Fedde. Huaxi Yaoxue Zazhi, 10(4): 202-204.
<i>Mahonia japonica</i>	Stem	--	--		Battersby, A. R., Francis, R. J., Hirst, M., Ruveda, E. A., Staunton, J. 1975. Biosynthesis. Part XXI. Investigations on the Biosynthesis of Stylopine in <i>Chelidonium Majus</i> . J Chem Soc Perkin Trans I: 1140.
<i>Mahonia japonica</i>	Sprout Seedling	--	--		Ikuta, A. and Itokawa, H. 1982. Studies on the Alkaloids from Tissue Culture of <i>Nandina domestica</i> . Plant Tissue Cult Proc Int Congr Plant Tissue Cell Cult 5th: 315316.
<i>Mahonia nervosa</i>	Rhizome	--	--		Willaman, J. J., Li, H. L. 1970. Alkaloid-Bearing Plants and their Contained Alkaloids, 1957-1968. Lloydia, 33: 1-286.
<i>Mahonia philippinensis</i>	Root	--	--		Willaman, J. J., Li, H. L. 1970. Alkaloid-Bearing Plants and their Contained Alkaloids, 1957-1968. Lloydia, 33: 1-286.
<i>Mahonia repens</i>	Root	--	1417	-1.1945550268900225	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Mahonia repens</i>	Stem	--	--		Suess, T. R. and Stermitz, F. R. 1981. The Constituents of <i>Castilleja rhexifolia</i> , <i>Mahonia repens</i> and <i>Oncidium cebolleta</i> . Dissertation Abstract Int B, 42: 1025-1026.
<i>Mahonia siamensis</i>	Stem Bark	--	2000	-1	Ruangrungsi, N., De-Eknamkul, W., Lange, G. L. 1984. Studies on Thai Medicinal Plant. Part I. <i>Planta Medica</i> , 50(5): 432-433.
<i>Menispermum canadense</i>	Plant	--	--		--
<i>Nandina domestica</i>	Plant	--	--		--
<i>Papaver somniferum</i>	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
<i>Phellodendron amurense</i>	Bark	8300	10000	-1	--
<i>Podophyllum hexandrum</i>	Rhizome	--	--		--
<i>Podophyllum peltatum</i>	Plant	--	--		--
<i>Sanguinaria canadensis</i>	Root	--	--		--
<i>Xanthorhiza simplicissima</i>	Root	12000	13000	-0.7801294339925203	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Zanthoxylum alatum</i>	Bark	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Zanthoxylum americanum</i>	Plant	--	--		--
<i>Zanthoxylum clava-herculis</i>	Plant	--	--		--
<i>Zanthoxylum clava-herculis</i>	Bark	--	--		--